

## ABSTRACT OF THE DISCLOSURE

Disclosed is a mass spectrometer combining an ion trap and a TOFMS non-coaxially, wherein ion trapping efficiency, mass resolution, and CID efficiency can be maximized. The 5 present invention relates to the mass spectrometer combining the ion trap and the TOFMS non-coaxially, having a mass filter disposed between an ion source and an ion trap and a controller for controlling the gas pressure inside the ion trap and the gas pressure inside the mass filter independently, wherein 10 the gas pressure inside the ion trap is set to the level higher than that inside the mass filter.